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No. 1228 P. 4

Application No.: 10/614934  
Docket No.: BB1102USDIV

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Page 3

Amendments to Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. -17 (canceled)
18. (new) An isolated polynucleotide comprising
  - a) a nucleotide sequence encoding a potassium channel agonist having at least 95% sequence identity, based on the Clustal method of alignment, when compared to a polypeptide of SEQ ID NO:14; or
  - b) a complement of the nucleotide sequence, wherein the complement and the nucleotide sequence have the same number of nucleotides and are 100% complementary.
19. (new) The polynucleotide of Claim 18 wherein the amino acid sequence of the polypeptide comprises SEQ ID NO:14.
20. (new) The polynucleotide of Claim 18, wherein the polynucleotide comprises SEQ ID NO:13.
21. (new) An isolated polynucleotide comprising
  - a) a nucleotide sequence encoding a potassium channel agonist having at least 95% sequence identity, based on the Clustal method of alignment, when compared to amino acids 6-45 of SEQ ID NO:14; or
  - b) a complement of the nucleotide sequence, wherein the complement and the nucleotide sequence have the same number of nucleotides and are 100% complementary.
22. (new) The polynucleotide of Claim 21 wherein the amino acid sequence of the polypeptide comprises amino acids 6-45 of SEQ ID NO:14.
23. (new) A recombinant DNA construct comprising the polynucleotide of Claim 18 or Claim 21 operably linked to at least one regulatory sequence.
24. (new) A transgenic cell comprising the recombinant DNA construct of Claim 23.
25. (new) The transgenic cell of Claim 24, wherein the cell is selected from the group consisting of a yeast cell, a bacterial cell and a plant cell.

Application No.: 10/614934  
Docket No.: BB1102USDIV

Page 4

26. (new) A virus comprising the recombinant DNA construct of Claim 23.
27. (new) A method for transforming a cell comprising introducing into a cell the polynucleotide of Claim 18 or Claim 21.
28. (new) A vector comprising the polynucleotide of Claim 18 or Claim 21.
29. (new) An isolated polynucleotide that
  - (a) comprises at least 75 contiguous nucleotides and
  - (b) remains hybridized with the isolated polynucleotide of Claim 18 under a wash condition of 0.1X SSC, 0.1% SDS, and 65°C.